



<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  Form PTO-1449		Docket Number	Application Number
		23543-035	09/455,534
		Applicant(s)	
		Michael ZIRNGIBL et al.	
		Filing Date	Group Art Unit
December 7, 1999	2645		

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
(W)	1A	4,156,868	05/29/79	Levinson			
(W)	1B	4,812,843	03/14/89	Champion, III et al.			
(W)	1C	4,837,798	06/06/89	Cohen et al.			
(W)	1D	4,941,168	07/10/90	Kelly, Jr.			
(W)	1E	4,953,085	08/28/90	Atkins			
(W)	1F	4,972,504	11/20/90	Daniel, Jr. et al.			
(W)	1G	4,989,141	01/29/91	Lyons et al.			
(W)	1H	5,021,953	06/04/91	Webber et al.			
(W)	1I	5,101,352	03/31/92	Rembert			
(W)	1J	5,128,861	07/07/92	Kagami et al.			
(W)	1K	5,168,445	12/01/92	Kawashima et al.			
(W)	1L	5,189,608	02/23/93	Lyons et al.			
(W)	1M	5,204,821	04/20/93	Inui et al.			
(W)	1N	5,235,680	08/10/93	Bijnagate			
(W)	1O	5,237,499	08/17/93	Garback			
(W)	1P	5,270,922	12/14/93	Higgins			
(W)	1Q	5,347,632	09/13/94	Filepp et al.			
(W)	1R	5,371,787	12/06/94	Hamilton			
(W)	1S	5,404,400	04/04/95	Hamilton			
(W)	1T	5,406,626	04/11/95	Ryan			
(W)	1U	5,500,793	03/19/96	Deming, Jr et al.			
(W)	1V	5,502,637	03/26/96	Beaulieu et al.			
(W)	1W	5,555,403	09/10/96	Cambot et al.			

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**FOREIGN PATENT DOCUMENTS**

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations
							YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

(W)	1X	Advertisement for Progressive Telecommunications Corporation's OPUS (undated).
(W)	1Y	KnowledgeX Workgroup Edition Publication (undated).
(P)	1Z	Relational OLAP Server, MicroStrategy; DSS Server Brochure, 1996.
(P)	1AA	Relational OLAP Interface for the Web, 1996.
	1BB	<del>"Andyne Introduces Greater Flexibility for Database Queries; New Query Management Option Provides Enhanced Management for Enterprise-Wide Queries," Business Wire, January 3, 1996. Available from the Dow Jones Interactive Web Site <a href="http://Ptg.djnr.com">http://Ptg.djnr.com</a>.</del>
	1CC	<del>CATALANO, Carla, "OLAP, Scheduling, Tuning for DBMSs," Computer World, April 1, 1996. Available in DOW JONES INTERACTIVE, <a href="http://www.dowjonesinteractive.com">http://www.dowjonesinteractive.com</a>.</del>

EXAMINER	DATE CONSIDERED
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(W)	2A	5,572,643	11/05/96	Judson			
(W)	2B	5,572,644	11/05/96	Liaw et al.			
(W)	2C	5,576,951	11/19/96	Lockwood			
(W)	2D	5,590,181	12/31/96	Hogan et al.			
(W)	2E	5,604,528	02/18/97	Edwards et al.			
(W)	2F	5,630,060	05/13/97	Tang et al.			
(W)	2G	5,638,424	06/10/97	Denio et al.			
(W)	2H	5,638,425	06/10/97	Meador, III et al.			
(W)	2I	5,664,115	09/02/97	Fraser			
(W)	2J	5,684,992	11/04/97	Abrams et al.			
(W)	2K	5,689,650	11/18/97	McClelland et al.			
(W)	2L	5,692,181	11/25/97	Anand et al.			
(W)	2M	5,701,451	12/23/97	Rogers et al.			
(W)	2N	5,706,442	01/06/98	Anderson et al.			
(W)	2O	5,710,889	01/20/98	Clark et al.			
(W)	2P	5,717,923	02/10/98	Dedrick			
(W)	2Q	5,724,410	03/03/98	Parvulescu et al.			
(W)	2R	5,724,525	03/03/98	Beyers, II et al.			
(W)	2S	5,732,216	03/24/98	Logan et al.			
(W)	2T	5,740,429	04/14/98	Wang et al.			
(W)	2U	5,740,829	04/21/98	Jacobs et al.			
(W)	2V	5,742,775	04/21/98	King			
(W)	2W	5,748,959	05/05/98	Reynolds			

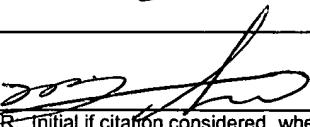
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	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations
							YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	1X	Andyne's Intranet Strategy Brings DSS to the Web; Company Aims to Dramatically Broaden Scope of Reporting Online Analysis," PR Newswire, September 18, 1996. Available from the Dow Jones Interactive Web Site <a href="http://Ptg.djnr.com">http://Ptg.djnr.com</a> .
(W)	1Y	SACHS et al., "A First Step on the Path to Automated Flight Reservations," <u>Interactive Voice Technology for Telecommunications</u> , 1996.
(W)	1Z	BENNACEF et al., "Dialog in the RAILTEL Telephone-Based System," <u>Spoken Language</u> , 1996
(W)	1AA	BROOKS, Peter, "Targeting Customer," <u>DBMS</u> , v9, n13, December 1996, pages 54-58.
	1BB	"Sterling Software Announces Alliance with Thinking Machines," <u>Business Wire</u> , December 16, 1996. Available from the Dow Jones Interactive Web Site <a href="http://Ptg.djnr.com">http://Ptg.djnr.com</a> .

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*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
(W)	3A	5,754,858	05/19/98	Broman et al.			
(W)	3B	5,754,939	05/19/98	Herz et al.			
(W)	3C	5,758,088	05/26/98	Bezaire et al.			
(W)	3D	5,758,351	05/26/98	Gibson et al.			
(W)	3E	5,761,432	06/02/98	Bergholm et al.			
(W)	3F	5,764,736	06/09/98	Shachar et al.			
(W)	3G	5,765,028	06/09/98	Gladden			
(W)	3H	5,771,172	06/23/98	Yamamoto et al.			
(W)	3I	5,781,735	07/14/98	Southard			
(W)	3J	5,787,278	07/28/98	Barton et al.			
(W)	3K	5,794,246	08/11/98	Sankaran et al.			
(W)	3L	5,797,124	08/18/98	Walsh et al.			
(W)	3M	5,799,156	08/25/98	Hogan et al.			
(W)	3N	5,802,488	09/01/98	Edatsune			
(W)	3O	5,802,526	09/01/98	Fawcett et al.			
(W)	3P	5,806,050	09/08/98	Shinn et al.			
(W)	3Q	5,809,483	09/15/98	Broka et al.			
(W)	3R	5,819,293	10/06/98	Comer et al.			
(W)	3S	5,825,856	10/20/98	Porter et al.			
(W)	3T	5,832,451	11/03/98	Flake et al.			
(W)	3U	5,838,768	11/17/98	Sumar et al.			
(W)	3V	5,848,397	12/08/98	Marsh et al.			
(W)	3W	5,850,433	12/15/98	Rondeau			

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							YES
							NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

(W)	3X	GUPTA et al., "Index Selection for OLAP," <u>Proceedings of the 13<sup>th</sup> International Conference on Data Engineering, © 1997</u>
(W)	3Y	HO et al., "Partial-Sum Queries in OLAP Data Cubes Using Covering Codes," <u>PODS'97 Tucson, AZ USA</u>
	3Z	<u>Data Warehousing: Data Access and Delivery, Infobase Technology Database, 1997, http://www.dba.com/oldinfobase/dwaccdel.html.</u>
(W)	3AA	<u>GARDNER, Dana Marie, "Cashing in With Data Warehouses and the Web," Data Based Advisor, v15, n2, February 1997, pages 60-63.</u>
	3BB	<u>Intrepid Systems Announces General Availability of DecisionMaster 4.1; Retailing's Premier Decision Support Software Enhancements Automate Information Delivery," Business Wire, May 27, 1997. Available in DOW JONES INTERACTIVE, http://www.dowjonesinteractive.com.</u>

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(W)	4A	5,852,811	12/22/98	Atkins			
(W)	4B	5,852,819	12/22/98	Beller			
(W)	4C	5,854,746	12/29/98	Yamamoto et al.			
(W)	4D	5,857,191	01/05/99	Blackwell, Jr. et al.			
(W)	4E	5,864,827	01/26/99	Wilson			
(W)	4F	5,864,828	01/26/99	Atkins			
(W)	4G	5,867,153	02/02/99	Grandcolas et al.			
(W)	4H	5,870,454	02/09/99	Dahlen			
(W)	4I	5,870,724	02/09/99	Lawlor et al.			
(W)	4J	5,870,746	02/09/99	Knutson et al.			
(W)	4K	5,872,921	02/16/99	Zahariev et al.			
(W)	4L	5,872,926	02/16/99	Levac et al.			
(W)	4M	5,878,403	03/02/99	DeFrancesco et al.			
(W)	4N	5,880,726	03/09/99	Takiguchi et al.			
(W)	4O	5,884,285	03/16/99	Atkins			
(W)	4P	5,884,312	03/16/99	Dustan et al.			
(W)	4Q	5,890,140	03/30/99	Clark et al.			
(W)	4R	5,893,079	04/06/99	Cwenar			
(W)	4S	5,893,905	04/13/99	Main et al.			
(W)	4T	5,907,598	05/25/99	Mandalia et al.			
(W)	4U	5,907,837	05/25/99	Ferrel et al.			
(W)	4V	5,911,135	06/08/99	Atkins			
(W)	4W	5,911,136	06/08/99	Atkins			

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	4X	Blue Isle Software InTouch/2000 Product Overview, Blue Isle Software, Inc. (archived July 7, 1997), <a href="http://www.blueisle.com">http://www.blueisle.com</a> . Available in Internet Archive Waybackmachine <a href="http://www.archive.org">http://www.archive.org</a> .
(W)	4Y	"Blue Isle Software Teams with Arbor Software to Deliver Automated Systems Management Capabilities for Arbor Essbase," <u>Business Wire</u> , October 29, 1997. Available in LEXIS, Nexis Library, ALLNWS file.
(W)	4Z	"Early Warning: Compulogic's Dynamic Query Messenger," <u>Software Futures</u> , November 1, 1997. Available in LEXIS, Nexis Library, ALLNWS file.
(W)	4AA	AVNUR et al., "CONTROL: Continuous Output and Navigation Technology with Refinement On-Line," © 1998

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(W)	5A	5,913,202	06/15/99	Motoyama			
(W)	5B	5,914,878	06/22/99	Yamamoto et al.			
(W)	5C	5,915,238	06/22/99	Tjaden			
(W)	5D	5,918,217	06/29/99	Maggioncalda et al.			
(W)	5E	5,918,225	06/29/99	White et al.			
(W)	5F	5,918,232	06/29/99	Pouschine et al.			
(W)	5G	5,920,848	07/06/99	Schutzer et al.			
(W)	5H	5,923,736	07/13/99	Shachar			
(W)	5I	5,924,068	07/13/99	Richard et al.			
(W)	5J	5,931,900	08/03/99	Notani et al.			
(W)	5K	5,933,816	08/03/99	Zeanah et al.			
(W)	5L	5,940,818	08/17/99	Malloy et al.			
(W)	5M	5,943,399	08/24/99	Bannister et al.			
(W)	5N	5,943,410	08/24/99	Shaffer et al.			
(W)	5O	5,943,677	08/24/99	Hicks			
(W)	5P	5,946,666	08/31/99	Nevo et al.			
(W)	5Q	5,946,711	08/31/99	Donnelly			
(W)	5R	5,950,165	09/07/99	Shaffer et al.			
(W)	5S	5,953,392	09/14/99	Rhie et al.			
(W)	5T	5,956,693	09/21/99	Geerlings et al.			
(W)	5U	5,960,437	09/28/99	Krawchuk et al.			
(W)	5V	5,963,641	10/05/99	Crandall et al.			
(W)	5W	5,974,406	10/26/99	Bisdikian et al.			

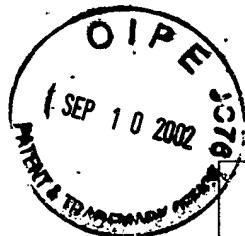
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							YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

(W)	5X	LIANG et al., "Computing Multidimensional Aggregates in Parallel," 1998 International Conference on Parallel and Distributed Systems, IEEE
(W)	5Y	Microstrategy Products and Services, 1998.
(W)	5Z	Personalized Information Broadcast Server, 1998.
(W)	5AA	"Information Advantage Wins Product of the Year Award for Knowledge Management," Business Wire, March 4, 1998. Available in LEXIS, Nexis Library, ALLNWS file.
	5BB	EMIGH, Jacqueline, "Information Builders, Inc. Launches WebFocus Suit," Newbytes, March 10, 1998. Available in Northern Light, <a href="http://www.northernlight.com">http://www.northernlight.com</a> , Doc. ID BS19980311010000172.

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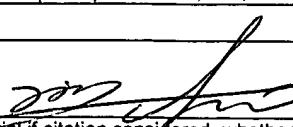
*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
(W)	6A	5,974,441	10/26/99	Rogers et al.			
(W)	6B	5,978,766	11/02/99	Luciw			
(W)	6C	5,978,796	11/02/99	Malloy et al.			
(W)	6D	5,987,586	11/16/99	Byers			
(W)	6E	5,991,365	11/23/99	Pizano et al.			
(W)	6F	5,995,945	11/30/99	Notani et al.			
(W)	6G	5,999,526	12/07/99	Garland et al.			
(W)	6H	6,012,066	01/04/00	Discount et al.			
(W)	6I	6,012,083	01/04/00	Savitzky et al.			
(W)	6J	6,016,335	01/18/00	Lacy et al.			
(W)	6K	6,016,336	01/18/00	Hanson			
(W)	6L	6,021,397	02/01/00	Jones et al.			
(W)	6M	6,023,714	02/08/00	Hill et al.			
(W)	6N	6,026,087	02/15/00	Mirashrafi et al.			
(W)	6O	6,031,836	02/29/00	Haserodt			
(W)	6P	6,038,561	03/14/00	Snyder et al.			
(W)	6Q	6,047,327	04/04/00	Tso et al.			
(W)	6R	6,055,513	04/25/00	Katz et al.			
(W)	6S	6,064,980	05/16/00	Jacobi et al.			
(W)	6T	6,078,924	06/20/00	Ainsbury et al.			
(W)	6U	6,078,994	06/20/00	Carey			
(W)	6V	6,094,651	07/25/00	Agrawal et al.			
(W)	6W	6,094,655	07/25/00	Rogers et al.			

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	6X	MICROSTRATEGY: DSS Broadcaster - The Industry's First Information Broadcast Server, M2 Presswire, March 20, 1998. Available in DOW JONES INTERACTIVE <a href="http://www.djinteractive.com">http://www.djinteractive.com</a>
	6Y	MICROSTRATEGY: DSS Broadcaster – The Industry's First Information Broadcast Server, March 23, 1998. <a href="http://strategy.com/newsandevent/New/PressRelease/1998/broadcaster.htm">http://strategy.com/newsandevent/New/PressRelease/1998/broadcaster.htm</a> .
	6Z	Microstrategy Introduces DSS Broadcaster – The Industry's First Information Broadcast Server, 3/23/98. <a href="http://www.strategy.com/newsandevents/News/PressReleases/1998/broadcaster.htm">http://www.strategy.com/newsandevents/News/PressReleases/1998/broadcaster.htm</a> .
(W)	6AA	"MSNBC on the Internet Launches New Traffic Section; MSNBC.com and Sidewalk.com Team with TrafficStation for Production of Comprehensive Site for Drivers," <i>Financial News</i> , Redmond, Wash., April 15, 1998.
(W)	6BB	Prospectus – 4,000,000 Shares Microstrategy Class A Common Stock, June 11, 1998.

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(W)	7A	6,101,241	08/08/00	Boyce et al.			
(W)	7B	6,101,473	08/08/00	Scott et al.			
(W)	7C	6,115,693	09/05/00	McDonough et al.			
(W)	7D	6,122,628	09/19/00	Castelli et al.			
(W)	7E	6,122,636	09/19/00	Malloy et al.			
(W)	7F	6,134,563	10/17/00	Clancey et al.			
(W)	7G	6,151,582	11/21/00	Huang et al.			
(W)	7H	6,151,601	11/21/00	Papierniak et al.			
(W)	7I	6,154,527	11/28/00	Porter et al.			
(W)	7J	6,154,766	11/28/00	Yost et al.			
(W)	7K	6,163,774	12/19/00	Lore et al.			
(W)	7L	6,167,383	12/26/00	Henson			
(W)	7M	6,173,310	01/09/01	Yost et al.			
(W)	7N	6,181,935	01/30/01	Gossman et al.			
(W)	7O	6,182,052	01/30/01	Fulton et al.			
(W)	7P	6,182,053	01/30/01	Rauber et al.			
(W)	7Q	6,182,153	01/30/01	Hollberg et al.			
(W)	7R	6,185,558	02/06/01	Bowman et al.			
(W)	7S	6,233,609	05/15/01	Mittal			
(W)	7T	6,246,981	06/12/01	Papineni et al.			
(W)	7U	6,256,659	07/03/01	McLain, Jr. et al.			
(W)	7V	6,260,050	07/10/01	Yost et al.			
(W)	7W	6,263,051	07/17/01	Saylor et al.			
(W)	7X	6,269,393	07/31/01	Yost et al.			

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		Michael ZIRNGIBL et al.	
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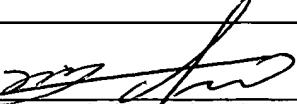
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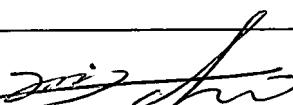
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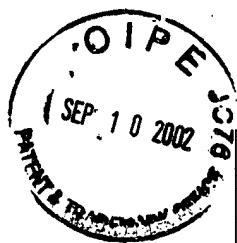
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